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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/721,782	11/26/2003	Chekcheyev Sergey	1793.1100	5090
49455 7590 07/13/2007 STEIN, MCEWEN & BUI, LLP			EXAMINER	
1400 EYE STR			GIESY, ADAM	
SUITE 300 · WASHINGTO	N, DC 20005	•	ART UNIT	PAPER NUMBER
			2627	
	•		MAIL DATE	DELIVERY MODE
•			07/13/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Annlinetian No	l Applicant(s)				
	Application No.	Applicant(s)				
Office Action Commence	10/721,782	SERGEY ET AL.				
Office Action Summary	Examiner	Art Unit				
	Adam R. Giesy	2627				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 23 April 2007.						
• ==	•					
, ===	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) ⊠ Claim(s) 1-34 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5) ⊠ Claim(s) 1-28 is/are allowed.  6) ⊠ Claim(s) 29,31,32 and 34 is/are rejected.  7) ⊠ Claim(s) 30 and 33 is/are objected to. •  8) □ Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) ☐ The specification is objected to by the Examine 10) ☑ The drawing(s) filed on 26 November 2003 is/a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the Ex	re: a) $\square$ accepted or b) $\square$ object drawing(s) be held in abeyance. Section is required if the drawing(s) is object.	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary					
Notice of Draftsperson's Patent Drawing Review (PTO-948)     Information Disclosure Statement(s) (PTO/SB/08)     Paper No(s)/Mail Date	Paper No(s)/Mail D 5) Notice of Informal F 6) Other:					

### **DETAILED ACTION**

#### Claim Rejections - 35 USC § 103

1. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

2. Claims 29, 31, 32, and 34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tonami (US Pat. No. 6,765,856 B2) in view of Hutchins et al. (hereinafter Hutchins – US Pat. No. 5,568,465).

Claims 29, 31, 32, and 34 are rejected for the same reasons as discussed in the previous Office Action, mailed on 1/23/2007 (see Response to Arguments).

## Allowable Subject Matter

- 3. Claims 1-28 are allowed over the prior art of record.
- 4. Claims 30 and 33 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

See reasons for indicating allowable subject matter as discussed in the previous Office Action, mailed on 1/23/2007.

# Response to Arguments

5. Applicant's arguments filed 4/23/2007 have been fully considered but they are not persuasive.

Applicant, on pages 11-13 of the Response filed on 4/23/2007, argue that Hutchins does not disclose increasing amplitudes of high frequency spectrum components. Applicant admits that Hutchins does disclose, however, the boosting of

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high frequency components. The Examiner asserts that boosting and increasing the amplitude are synonymous and can be used interchangeably when applied to any electrical signal.

Applicant, on pages 11-13 of the Response filed on 4/23/2007, argue that there is no motivation to combine the references of Hutchins and Tonami. Examiner respectfully disagrees. Examiner asserts that it would be advantageous to reduce the dynamic ranges of the high and low frequencies of the read signal (see page 3 of the prior Office Action, mailed on 1/23/2007). Reducing the dynamic ranges of the high and low frequencies of the read signal will cancel out (or reduce) inter-symbol interference (supported by Hutchins - column 3,lines 2-11) which will increase the amount of recorded information (as admitted to in the abstract of the current application).

#### Conclusion

6. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Adam R. Giesy whose telephone number is (571) 272-7555. The examiner can normally be reached on 8:00am-5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wayne R. Young can be reached on (571) 272-7582. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

ARG 7/3/2007

WAYNE YOUNG